

< U E 07' 05 921 12 /

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-250463

(43)Date of publication of application : 22.09.1998

(51)Int.Cl.

B60Q 1/115

(21)Application number : 09-062635

(71)Applicant : DENSO CORP.  
TOYOTA MOTOR CORP

(22)Date of filing : 17.03.1997

(72)Inventor : OKUCHI HIROAKI  
OTA TAKANORI  
KAWAKAMI RYOJI  
NAITO RYOSUKE  
YAMADA YUJI

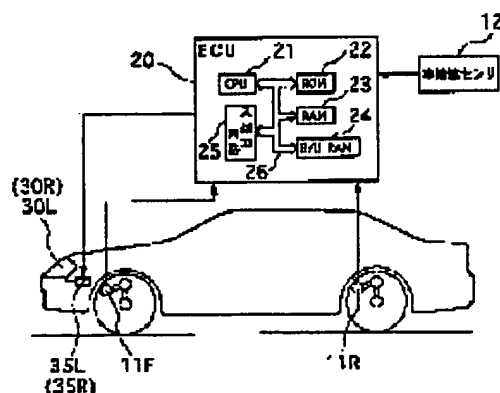
## (54) AUTOMATIC ADJUSTING DEVICE OF HEAD LIGHT OPTICAL AXIS DIRECTION FOR VEHICLE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To more quickly and properly adjust an optical axis direction of a headlight corresponding to a running condition of a vehicle.

**SOLUTION:** In this device, based on a signal from a height sensor 11F, 11R arranged in a front/rear wheel of a vehicle, a pitch angle in a longitudinal direction of the vehicle is calculated. From a car speed and acceleration based thereon, a running condition of the vehicle is decided for whether in what control mode it is placed of stop, acceleration, deceleration, and fixed speed.

Corresponding to this control mode, the pitch angle is filter processed, an actuator drive angle (target optical axis direction adjusting angle) without giving light of glare to a car in the opposite lane is actuated, an actuator 35R, 35L is driven, an optical axis direction of a headlight 30R, 30L is adjusted. Here, a change of acceleration which is a sign of a transfer to an acceleration/deceleration running condition of the vehicle is caught, by switching quickly to the corresponding control mode, the optical axis direction of the headlight 30R, 30L is more quickly and properly adjusted.



## LEGAL STATUS

[Date of request for examination] 29.10.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3095703

[Date of registration] 04.08.2000

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office